CLAIMS

What is claimed is:

1. A shield comprising:

an attachment mechanism disposed on an outer surface to attach

5 the shield to a joint of a boreless compressor wheel; and

a passage extending from a proximate end of the shield to a distal

end of the shield.

2. The shield of claim 1 wherein the attachment mechanism comprises

10 threads.

3. The shield of claim 1 wherein the passage provides access to an end

surface of a joint of a boreless compressor wheel when the shield is inserted at

least partially in the joint.

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4. The shield of claim 1 comprising a resin.

5. The shield of claim 4 wherein the resin comprises a polymer.

20 6. The shield of claim 1 wherein the attachment mechanism comprises an

outer surface capable of being in contact with a surface of a joint of a boreless

compressor wheel.

- 7. The shield of claim 1 wherein the shield prevents material entering the passage from contacting a pilot surface of a joint of a boreless compressor wheel.
- 8. The shield of claim 1 wherein the shield prevents material entering the passage from contacting an attachment mechanism a joint of a boreless compressor wheel.
- The shield of claim 1 further comprising a base portion that includes an attachment mechanism to attach the shield to a fitting of a tube associated with a
 cold working process.
 - 10. The shield of claim 1 further comprising a base portion that includes one or more openings that allow material associated with a cold working process to exit the passage.

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- 11. The shield of claim 1 further comprising a pressure fit surface positioned proximate to the distal end of the shield to form a pressure fit with a surface of a joint of a boreless compressor wheel.
- 20 12. The shield of claim 1 further comprising a boreless compressor wheel.
 - 13. An assembly comprising:

a boreless compressor wheel that includes a joint; and

a shield that comprises an attachment mechanism disposed on an outer surface to attach the shield to the joint and a passage extending from a proximate end of the shield to a distal end of the shield.

- The assembly of claim 13 wherein the passage allows material associated with a cold working process to contact an end surface of the joint without contacting one or more other surfaces of the joint.
- 15. A boreless compressor wheel comprising a joint that includes an end10 surface at least partially treated by a cold working process.
 - 16. The boreless compressor wheel of claim 15 further comprising one or more surfaces untreated by the cold working process.
- 15 17. The boreless compressor wheel of claim 15 further comprising a shaft inserted at least partially in the joint.
 - 18. A method comprising:

inserting a shield at least partially in a joint of a boreless compressor wheel; and

treating, at least partially, an end surface of the joint to thereby reduce fatigue of the boreless compressor wheel.

- 19. The method of claim 18 wherein the treating comprises a cold working process.
- 20. The method of claim 18 wherein the treating comprises shot-peening.
- 21. The method of claim 18 wherein the inserting comprises rotating.

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